Unless otherwise noted, all code references are to 49CFR Part 192. If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Operator: AMEREN ILLINOIS COMPANY	Operator ID#: 32513
Inspection Date(s): 9/24/2013	Man Days: 1
Inspection Unit: Hillsboro Storage	•
Location of Audit: Hillsboro Storage	
Exit Meeting Contact: Mike Kershaw	
Inspection Type: Design Testing and Construction	
Pipeline Safety Representative(s): Jim Watts,	
Company Representative to Receive Report: Michael Fuller	
Company Representative's Email Address: mfuller2@ameren.com	

CONSTRUCTION INFORMATION			
Location of Construction:		Construction	Performed By:
Observed welding fabrication being perform station yard and excavation at the two most storage field at Hillsboro Storage Facility.		KS Energy Ser	vices.
Contractor Foreman:		-	
Operator Inspector:			
	Person(s) On	Job Site	
Brian Hardy, Foreman	Ed Hargrave, (	Operator	Marty Rallson, Laborer
Chase Murphy, Laborer	Rick Delong,	Welder	Derek Rigdon, Welder Helper
Dick Barton, Ameren 3rd Party Inspector	Mike Kershaw, Supe Storage		Chuck Tebbe, Ameren Quality Assurance Consultant
Description of Construction:			

MAIN INSTALLATION		Status
[192.55]	Steel	Yes
General Comment:		
Steel pipe was API 5L X52 with X	K52 and X60 fittings.	
	PE	No
[192.59]		
[192.59] General Comment:		<b>L</b>

Unless otherwise noted, all code references are to 49CFR Part 192. If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

[192.59]	Other	No
General Comment:		
No other types of piping material will be installed during	the project.	
[192.5]	Class location :	1
[192.619,192.621,192.623]	MAOP	1440
[192.63]	Pipe Size :	8
[192.55,192.59]	Specification:	Api 5L
[192.55,192.59]	Manufacturer:	Midwest
[192.55,192.59]	Pipe Grade :	X52
[192.55,192.59]	Wall Thickness :	.322
[192.63(a)(2)]	Are pipe, valves, and fittings properly marked for identification?	Satisfactory
[192.227]	Date of Welder qualification:	7-8-13
[192.227]	Welder's Name:	Rick Delong
[192.225,192.275,192.277,192.279,192.283]	Is pipe joined in accordance with approved written procedures?	Unsatisfactory
of WPHY 65 had been welded into a drip and pig launch welding procedure for welding on piping with a yield stre fittings identified being marked as WPHY 65 shall be cut	oro Storage Field, Staff observed a total of five fittings (3 tees and 2 elbows) may be piping during prefabrication. Further investigation determined Ameren does a langth of X65. Ameren only has qualified welding procedures up to and including tout and replaced with fittings marked as WPHY 60. While Staff was present Alarge and removed all fittings marked as WPHY 65 and will not be used during the	not have a qualified X60 yield strength. The meren conducted a
[192.285]	Date of Plastic Joining Qualification :	Not Applicable
General Comment:  No plastic piping will be utilized during this project.		
[192.285]	Joiner's name:	Not Applicable
General Comment:		
No plastic piping will be utilized during this project.		
[192.455]	Is buried metallic pipe coated?	Satisfactory
General Comment:		
The existing piping was X-tru coat or coal tar wrapped m	nain. The new piping will be epoxy coated piping.	
[192.461]	Does coating meet 192.461?	Satisfactory
General Comment:		
The line pipe is coated with epoxy coating. Fittings and welds will be coated with hot wrap just prior to or after installing the piping in the ditch.		

AMEREN ILLINOIS COMPANY/9-24-2013

Page 2 of 6

Unless otherwise noted, all code references are to 49CFR Part 192. If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

[192.455(a)(1)]	Is cathodic protection being provided?	Satisfactory
General Comment:		
The current piping is protected with rectifiers.	The new piping will be tied into the existing piping system.	
[192.455(a)(1)]	Is cathodic protection being provided? By Anodes:	No
General Comment:		
Anodes are not utilized as the piping is protect	cted using rectifiers.	
[192.455(a)(1)]	Is cathodic protection being provided? By Rectifier:	Yes
General Comment:		
There are 8 rectifiers that protect the piping w	vithin the storage field.	
[192.461(c)]	Is coating inspected just prior to being installed in the ditch?	Not Checked
General Comment:	·	
No piping was installed in the ditch during this	s inspection.	
[192.467]	Are pipelines electrically isolated from other underground metallic structures?	Satisfactory
General Comment:		
Electrical isolation is present at the well sites	and is accomplished using insulated flanges to isolate the downhole well piping from the tra	ansmission piping.
[192.479]	Are above ground facilities cleaned and coated or jacketed as needed?	Not Checked
General Comment:		
No above ground piping was installed during	the inspection. The new piping will be painted as part of the replacement project.	
[192.303]	Are comprehensive written construction specifications available and adhered to?	Satisfactory
General Comment:		
The Ameren inspector on site had a copy of the	he Ameren O&M, Construction procedures and copies of the project plans.	
[192.305]	Are inspections performed by the operator to check adherence to the construction specifications?	Satisfactory
General Comment:		
Ameren has a third party inspector observing	the work during the project.	
[192.307]	Is material being visually inspected at the site of installation to ensure against damage that could impair its serviceability?	Satisfactory
General Comment:		
	detect the improper yield strength of Y65 stamped on approximately 8 fittings observed by sause Ameren has no qualified welding procedures for Y65 pipe or fittings.	Staff. The fittings should
[192.319]	Is ditch back-filled to provide firm support and prevent damage to pipe or coating?	Not Checked

AMEREN ILLINOIS COMPANY/9-24-2013

Unless otherwise noted, all code references are to 49CFR Part 192. If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

General Comment:		
No backfilling was conducted during the	inspection.	
[192.321(c)]	Is plastic pipe installed as to minimize shear and tensile forces?	Not Applicable
General Comment:		
No plastic pipe will be utilized during this	project.	
[192.321(e)]	Does plastic pipe have means of locating while underground?	Not Applicable
General Comment:		
No plastic pipe will be utilized during this	project.	
[192.325]	Are required clearances from underground structures being maintained?	Not Applicable
General Comment:		
No underground structures were encoun	tered during the excavations performed.	
[192.327]	Is required cover being obtained appropriate to type of pipeline and location?	Not Checked
General Comment:		
No piping was installed during the inspec	ction to confirm cover.	
[192.503]	Are general testing requirements being met?	Not Checked
General Comment:		
No pressure testing was performed durir	ng the inspection. The plans require the new piping to be hydro tested prior to being connected to	to the existing piping.
[192.517]	Are records being made of strength and leak tests?	Not Checked
General Comment:		
No pressure testing was performed durir	ng the inspection.	
[192.807]	Were covered employees Operator Qualification records reviewed to ensure qualification?	Satisfactory
General Comment:		
Staff reviewed the qualifications of the K the direction of a qualified individual.	S Energy employees on site and determined they were currently qualified for the tasks performe	ed or were working unde
[192.805(c)]	Were non-qualified personnel being "directed and observed" by a qualified individual?	Satisfactory
General Comment:		
One of the two laborers on site was not o	currently qualified but was working under the direction of a qualified laborer and equipment opera	ator.
[192.805(c)]	Were span of control limitations being followed?	Satisfactory
General Comment:		
Span of control was observed being main	ntained during the inspection.	
AMEREN II LINOIS COMPANY/9-24-20/		Page 4 of

AMEREN ILLINOIS COMPANY/9-24-2013

Page 4 of 6

Unless otherwise noted, all code references are to 49CFR Part 192. If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.

Was a Protocol 9 (Form 15) Completed?		No
[192.614]	Were One Call Notifications performed as required?	Satisfactory
[192.614]	Dig Ticket #	A2390522

Unless otherwise noted, all code references are to 49CFR Part 192. If an item is marked Unsatisfactory, Not Applicable, or Not Checked, an explanation must be included in this report.